

FIGURE 1

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hOP2	Ala	Val	Arg	Pro	Leu	Arg	Arg	Arg	Gln
mOP2	...	Ala	Lys

5

hOP2	Pro	Lys	Lys	Ser	Asn	Glu	Leu
mOP2	...	...	...	Thr	...	...	...

10

15

hOP2	Pro	Gln	Ala	Asn	Arg	Leu	Pro	Gly	Ile
mOP2	...	His	Pro	...	Lys	...	...	...	...

20

25

hOP2	Phe	Asp	Asp	Val	His	Gly	Ser
mOP2	...	...	...	Gly	...	...	...

30

hOP2	His	Gly	Arg	Gln	Val	Cys	Arg	Arg	His
mOP2	Arg	Glu

35

40

hOP2	Glu	Leu	Tyr	Val	Ser	Phe	Gln
mOP2	Arg	...	Arg

45

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hOP2	Asp	Leu	Gly	Trp	Leu	Asp	Trp	Val	Ile
mOP2
		50					55		

hOP2	Ala	Pro	Gln	Gly	Tyr	Ser	Ala
mOP2	...	...	...	...	...	...	...
			60				

hOP2	Tyr	Tyr	Cys	Glu	Gly	Glu	Cys	Ser	Phe
mOP2	...	...	...	...	...	...	...	Ala	...
	65					70			

hOP2	Pro	Leu	Asp	Ser	Cys	Met	Asn
mOP2	...	...	...	...	...	...	...
		75					80

hOP2	Ala	Thr	Asn	His	Ala	Ile	Leu	Gln	Ser
mOP2	...	...	...	...	...	...	...	...	...
					85				

hOP2	Leu	Val	His	Leu	Met	Lys	Pro
mOP2
	90					95	

hOP2	Asn	Ala	Val	Pro	Lys	Ala	Cys	Cys	Ala
mOP2	Asp	Val
				100					105

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hOP-1	Thr	Asn	His	Ala	Ile	Val	Gln	Thr	Leu
mOP-1
hOP-2	Leu	...	Ser	...
mOP-2	Leu	...	Ser	...

85

90

hOP-1	Val	His	Phe	Ile	Asn	Pro	Glu	Thr	Val
mOP-1	...	Asn	...	...	...	...	Asp	...	...
hOP-2	...	His	Leu	Met	Lys	...	Asn	Ala	...
mOP-2	...	His	Leu	Met	Lys	...	Asp	Val	...

95

hOP-1	Pro	Lys	Pro	Cys	Cys	Ala	Pro	Thr	Gln
mOP-1	...	...	...	...	...	...	...	...	...
hOP-2	...	...	Ala	...	...	...	...	...	Lys
mOP-2	...	...	Ala	...	...	...	...	...	Lys

100

105

hOP-1	Leu	Asn	Ala	Ile	Ser	Val	Leu	Tyr	Phe
mOP-1	...	...	...	...	...	...	...	...	...
hOP-2	...	Ser	...	Thr	...	...	...	...	Tyr
mOP-2	...	Ser	...	Thr	...	...	...	...	Tyr

110

115

hOP-1	Asp	Asp	Ser	Ser	Asn	Val	Ile	Leu	Lys
mOP-1	Asp
hOP-2	...	Ser	...	Asn	Arg
mOP-2	...	Ser	...	Asn	Arg

120

125

FIGURE 2

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hOP-1	Ser	Thr	Gly	Ser	Lys	Gln	Arg	Ser	Gln
mOP-1	Gly		
hOP-2	Ala	Val	Arg	Pro	Leu	Arg	...	Arg	...
mOP-2	Ala	Ala	Arg	Pro	Leu	Lys	...	Arg	...
	1				5				

hOP-1	Asn	Arg	Ser	Lys	Thr	Pro	Lys	Asn	Gln
mOP-1	...	...	...	...	...	...	...	...	...
hOP-2	Pro	Lys	Lys	Ser	Asn	Glu	Leu	Pro	Gln
mOP-2	Pro	Lys	Lys	Thr	Asn	Glu	Leu	Pro	His
	10					15			

hOP-1	Glu	Ala	Leu	Arg	Met	Ala	Asn	Val	Ala
mOP-1	...	...	...	..	...	...	Ser	...	...
hOP-2	Ala	Asn	Arg	Leu	Pro	Gly	Ile	Phe	Asp
mOP-2	Pro	Asn	Lys	Leu	Pro	Gly	Ile	Phe	Asp
		20					25		

hOP-1	Glu	Asn	Ser	Ser	Ser	Asp	Gln	Arg	Gln
mOP-1
hOP-2	Asp	Val	His	Gly	...	His	Gly
mOP-2	Asp	Gly	His	Gly	...	Arg	Gly	...	Glu
			30					35	

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hOP2	Pro	Thr	Lys	Leu	Ser	Ala	Thr
mOP2
					110		

hOP2	Ser	Val	Leu	Tyr	Tyr	Asp	Ser	Ser	Asn
mOP2	...	...	...	...	...	...	...	...	...
			115					120	

hOP2	Asn	Val	Ile	Leu	Arg	Lys	Ala
mOP2	His
				125			

hOP2	Arg	Asn	Met	Val	Val	Lys	Ala	Cys	Gly
mOP2
			130					135	

hOP2	Cys	His
mOP2

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hOP-1	Ala	Cys	Lys	Lys	His	Glu	Leu	Tyr	Val
mOP-1
hOP-2	Val	...	Arg	Arg
mOP-2	Val	...	Arg	Arg
				40					45

hOP-1	Ser	Phe	Arg	Asp	Leu	Gly	Trp	Gln	Asp
mOP-1	...	...	...	...	...	...	...	...	...
hOP-2	...	...	Gln	...	...	...	...	Leu	...
mOP-2	Arg	...	Arg	...	...	...	...	Leu	...
				50					

hOP-1	Trp	Ile	Ile	Ala	Pro	Glu	Gly	Tyr	Ala
mOP-1	...	...	...	...	...	...	...	...	...
hOP-2	...	Val	...	...	...	Gln	...	...	Ser
mOP-2	...	Val	...	...	...	Gln	...	...	Ser
	55					60			

hOP-1	Ala	Tyr	Tyr	Cys	Glu	Gly	Glu	Cys	Ala
mOP-1	...	...	...	...	...	...	...	...	...
hOP-2	...	...	...	...	...	...	...	...	Ser
mOP-2	...	...	...	...	...	...	...	...	...
		65					70		

hOP-1	Phe	Pro	Leu	Asn	Ser	Tyr	Met	Asn	Ala
mOP-1	...	...	...	...	...	...	...	...	...
hOP-2	...	...	...	Asp	...	Cys	...	...	...
mOP-2	...	...	...	Asp	...	Cys	...	...	...
			75					80	

hOP-1	Lys	Tyr	Arg	Asn	Met	Val	Val	Arg
mOP-1	...	...	...	...	...	...	...	...
hOP-2	...	Ala	...	...	...	...	...	Lys
mOP-2	...	His	...	...	...	...	...	Lys
				130				135

hOP-1	Ala	Cys	Gly	Cys	His
mOP-1	...	...	...	...	...
hOP-2	...	...	...	...	...
mOP-2	...	...	...	...	...